

**Speed Post**

B-190198/NGRBA(RG)/CPCB/Distillery/4/2016-17 2027

Nov 30, 2017

To,

**M/s Rai Bhadur Narain Singh Sugar Mills Ltd (Distillery Division)  
Laksar, Distt.- Haridwar, Uttarakhand  
Uttarakhand**

**DIRECTION UNDER SECTION 5 OF THE ENVIRONMENT (PROTECTION) ACT, 1986**

**WHEREAS**, the Central Government has notified the standards for discharge of environmental pollutants from various categories of industries under the Environment (Protection) Act, 1986 and the rules framed there under; and

**WHEREAS**, the Ministry of Environment & Forests, Govt. of India, vide notification S.O.157(E) of 27.02.1996 has delegated powers vested under Section 5 of the Environment (Protection) Act, 1986 (29 of 1986) to the Chairman, Central Pollution Control Board (CPCB), to issue direction to any industry, Municipal Corporation, Municipal Council, Cantonment Board to any local or other Authority for the violation of emission and effluent standards notified under the Environment (Protection) Rules, 1986; and

**WHEREAS**, it is obligatory on the part of industries to install effluent treatment plants (ETPs) to comply with the effluent discharge standards as notified under the Environment (Protection) Act, 1986 and the Rules framed thereunder and also to meet the consent conditions granted by State Pollution Control Board (SPCBs) / Pollution Control Committees (PCCs); and

**WHEREAS**, M/s. Rai Bhadur Narain Singh Sugar Mills Ltd (Distillery Division) Uttarakhand (hereinafter referred as 'the Unit') is involved in the process of extra neutral alcohol and rectified spirit using molasses as raw material and;

**WHEREAS**, the unit was inspected by the officials of Central Pollution Control Board (CPCB) Delhi, 26.12.2016 and during inspection, the unit was found closed.

**WHEREAS**, CPCB issued direction dated June 02, 2017 Under Section 5 of Environment Protection act, 1986 to the unit to comply the following;

1. The unit shall submit following reports duly validated by reputed institutions like National Sugar Institute, Kanpur, Vasantdada Sugar Institute, Pune and IITs to CPCB and UEPPCB within 60 days:

- a) Assessment of the manufacturing technology for generation of spent wash and ZLD adequacy assessment of system comprising of Biomethanation, RO, MEE, composting/incineration system and steam availability, etc.
  - b) Water audit and mass balance reports to establish spent wash generation rate,
  - c) Action Plans to achieve Zero Liquid Discharge(ZLD),
  - d) To restrict lined effluent storage capacity to 30 days, and
  - e) Assessments of availability of press mud, compost yard, composting process, sell of compost and compost quality.
2. The unit shall install mass flow meters with totalizer at inlet of ROs/MEE, outlet of MEE and to make arrangement for continuous online transmission of spent wash flow measurements (namely Weak Spent Wash, Strong Spent Wash)/web camera data of Spent Wash generation, concentration & MEE operation by providing linkage to CPCB & UEPPCB servers within 75 days.
  3. The unit shall identify recipient drains/ rivulets and their u/s & d/s locations in consultation with UEPPCB for monthly monitoring by industry to ensure ZLD from distilleries within 30 days. The monitoring report shall be submitted to CPCB on monthly basis.
  4. The unit will provide documentary support for procurement/ availability of press mud, sell of compost and compost quality on monthly basis (by 10<sup>th</sup> of every month) to CPCB/UEPPCB.

**AND WHEREAS,** fish mortality was reported on July 04, 2017 at Ganga River Ghat at Shukartal, Muzaffarnagar due to discharge of industrial effluent from Laksar industrial area Haridwar, Uttarakhand ;and

**WHEREAS,** on the basis of above observation team from UEPPCB officials carried out monitoring at Shukratal Ghat along with the relevant locations on 5.07.2017 and following observations were made;

1. Shukratal ghat is located on the Ganga river which is named after confluence of river Ban Ganga & Saloni Rivers meets main Ganga at Bijnor.
2. River Saloni, Laksar drains meets river Ban Ganga.
3. The sample was collected from Ban Ganga before meeting Laksar drain and Dissolved Oxygen (DO) was found to be 7.2 mg/l.
4. The DO at the Laksar drain near village Idrishpur was found to be 1.6 mg/l and after confluence with Ban Gangs, the DO of Ban Ganga was 2.1 mg/l.
5. The DO of the Saloni River was found to be 6.9 mg/l before confluence with Ban Ganga.
6. The Dissolved Oxygen (DO) of Ban Ganga after meeting Saloni River near Shukratal Ghat was found to be 3.3 mg/l/
7. Discharge of coloured untreated & effluent at Shukratal Ghat was report since evening of 04.07.2017, which results in mortality of fishes at the Ghat.
8. It is observed that D.O. in the River Ban Ganga & Ganga (after confluence of Saloni River) reduced significantly due to discharge of industrial effluent into Laksar drain.

**AND WHEREAS**, the team from Uttarakhand Environment Protection & Pollution Control Board (UEPPCB) has also monitored Laksar drain, Hudwaha drain, River Ban Ganga and the area of Idrishpur on 05.07.2017 along with M/s RBNS distillery and following observations were made;

1. The colour of the Laksar drain water down stream of lagoon of M/s RBNS distillery was appeared yellow in colour. The water samples were collected from the Laksar drain, upstream and downstream of M/ s RBNS distillery lagoons and the analysis report showed colour 50 Hazen and 200 Hazen respectively which indicated possibility of illegal discharge of spent wash into the Laksar drain.
2. It was found that 04 lagoons were completely filled and one lagoon was half filled with the spent wash.
3. No manufacturing operation in the unit was found.
4. During inspection maintenance of MEE was under process.
5. It is observed that overflow/bypass of spent wash from lagoon of M/s RBNS distillery into Laksar drain could not be ruled out, which resulted into fish mortality of Shukratal Ghat due to reduced DO concentration in river water.

**AND WHEREAS**, CPCB issued closure direction dated 12.07.2017 Under Section 5 of the Environment (Protection) Act, 1986, the unit, M/s. Rai Bhadur Narain Singh Sugar Mills Ltd (Distillery Division) to comply with the following;

1. To immediately discontinue the practice of discharging of effluent into the nearby drain.
2. The unit shall inform about the quantity of spent wash stored into the lagoon along with the time bound action plan to dispose the same before 14.07.2017.
3. To implement the Zero Liquid Discharge (ZLD) action plan, as per the direction of CPCB & UEPPCB.
4. The unit shall submit adequacy assessment report of the ETP system/up gradation plan prepared by reputed institution like Vasantdada Sugar Institute, Pune, National Sugar Institute, Kanpur, IITs etc to CPCB.

**AND WHEREAS**, the unit vide letters dated 19.8.2017 was examined and following observations were made;

1. The unit has full-fledged effluent treatment system to achieve ZLD, the unit has installed Bio-digester, MEE followed by bio-composting.
2. The unit has informed that they are maintaining ZLD action plan, and the unit is not discharging any effluents into the nearby river/drain.

**WHEREAS**, the members of NSI, inspected the unit dated 18.08.2017 and as per the adequacy assessment report, the basic plant machinery is adequate to cope up with the requirement of ZLD. Following are the observation made by NSI, Kanpur;

1. The factory has adopted continuous fermentation along with MPR distillation.

2. For effluent treatment the factory has adopted Bio-methanated having two Bio-digester. Spent wash after bio-digester is taken to lagoon and from lagoon, it is sent to MEE where it is concentrated to 25-30 solid and the condensate is sent to CPU.
3. The unit is using its sludge and boiler ash in bio-composting and land fill respectively.

**AND WHEREAS**, the unit was inspected by the officials of Central Pollution Control Board (CPCB), Delhi on 20.10.2017 for the verification of compliance by the unit and following observations are made during the inspection;

1. The unit has installed mass flow meter with totalizer at the outlet of MEE, However the unit has placed order for another mass flow meter.
2. The lagoons were found 1/2 filled with spent wash.
3. The unit informed that the spent wash will be used as per their action plan.

**AND WHEREAS**, CPCB constituted a Three –member committee vide office order dated 27.09.2017 having representative from CPCB, MoEF & CC and NMCG for examination and recommendation for revocation of the closure direction issued by CPCB; and

**WHEREAS**, The Three member committee in its meeting held on 16.11.2017 examined the adequacy report of the unit and recommended that the unit may be allowed to resume operation along with following recommendations;

1. The unit shall set up an Effluent Quality Monitoring division equipped with all water testing facilities and with trained staff of Environment background.
2. The unit shall submit the revalidated adequacy assessment report carried out by the institute which has conducted adequacy of assessment and submit the reports within 45 days after resuming of operation.

**AND NOW THEREFORE**, in view of the above observations and in exercise of powers delegated under Section 5 of the Environment (Protection) Act, 1986, **the unit (M/s Rai Bhadur Narain Singh Sugar Mills Ltd)** is allowed to resume its manufacturing operations and shall comply with the following;

1. The unit shall set up an Effluent Quality Monitoring division equipped with all water testing facilities and with trained staff of Environment Background.
2. The unit shall install mass flow at the inlet of MEE and provide its connectivity to CPCB before resumption of the operation
3. The unit shall restrict to its lagoons capacity upto 30 days of spent wash generation.
4. The unit shall provide copy of records of alcohol/rectified spirit production, spent wash generation (namely weak spent, strong spent wash) details of MEE operations, mass flow meter readings connected with CPCB server etc. on monthly basis (by 10<sup>th</sup> of every month) to CPCB/UEPPCB in the prescribed format (enclosed).
5. The unit shall carry out monthly monitoring of u/s & d/s location of the Laksar drain through E(P)A recognised laboratory and shall provide the data by 10<sup>th</sup> of every month to CPCB/UEPPCB .

6. The unit shall use concentrated spent wash: press mud ratio of 1:1.6 and shall provide documentation support for procurement/ availability of press mud, sell of compost and compost quality on monthly basis (by 10<sup>th</sup> of every month) to CPCB/UEPPCB .
7. The unit shall submit the implementation status report of action taken against the recommendation of adequacy report within 15 days and shall submit the revalidated adequacy assessment report carried out by the institute which has conducted adequacy of assessment and submit the reports within 45 days after resumption of operation

In case of default in compliance with the above directions or any other exigencies, CPCB will be constrained to initiate further stringent action against the Unit, (M/s Rai Bhadur Narain Singh Sugar Mills Ltd (Distillery Division) in accordance with the provisions of the Environment (Protection) Act, 1986, without any further notice.

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**(S. P. Singh Parihar)**  
CHAIRMAN

- 1. The Chairman**  
Uttarakhand Pollution Control Board,  
29/20 , Nemi Road, Dehradun,  
Uttarakhand"Building  
With request to ensure that the unit complies with the directions.
- 2. The Incharge (CP Division)**  
Ministry of Environment, Forest & C.C  
Prithvi Block, Indira Paryavaran Bhawan,  
Jorbagh Road, New Delhi – 110 003  
: For Kind information, please.
- 3. The Regional Director**  
Regional Directorate  
Central Pollution Control Board  
PICUP Bhawan, Ground Floor,  
Vibhuti Khand, Gomti Nagar,  
Lucknow – 226 010.  
: For follow up and ensuring compliance
- 4. The District Magistrate,**  
Haridwar-Uttarakhand  
With request to ensure compliance of closure direction

4. **The District Magistrate,**  
Haridwar-Uttarakhand

With request to ensure  
compliance of closure  
direction

5. **The Superintending Engineer,**  
Uttarakhand Power Corporation Ltd.,  
Old diesel power house  
(opposite saint paul school)  
Kathgodam haldwani, District -Nanital  
Uttarakhand

With request to re-connect the  
power supply .

6. The In-charge, IPC-III, CPCB

7. The In-charge, IT Division, CPCB

8. Master file/Guard file RG Division



(A SUDHAKAR)

MEMBER SECRETARY





## Central Pollution Control Board Format for evaluation of Distillery ETP performance

### Format For Distillery

Name of the distillery: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Capacity of the distillery: \_\_\_\_\_ KLPD, \_\_\_\_\_ Lac lit/annum

Date	Raw Spent wash generation as per online mass flow meter		Raw Spent wash Total Solids		Cumulative Raw Spent wash generation as per online mass flow meter		Conc. Spent wash generation as per online mass flow meter		Conc. Spent wash Total Solids		Cumulative Conc. Spent wash generation as per online mass flow meter		Condensate quantity generated	Press. Mud Cake (PMC) consumption		Concentrated Spent wash consumption		Concentration of spent wash to PMC ratio achieved	Bio-compost Produced	Quality of Bio-compost				Bio-compost Sold			
	MT/Hr	MT/Day	%	MT	MT/Hr	MT/day	%	MT	MT/Hr	MT/day	%	MT		MT/Day	MT/	MT/	Month			Month	Month	Month	N (%)		P (%)	K (%)	Moisture (%)

Note- Where per day data is not available, distillery can provide per month or per two months data